

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S78	0	"20040111437".pn. AND (database\$1)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 13:44
S77	1	"20040111437".pn. AND (process\$4 operator\$1)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 13:44
S80	2	"20040111437".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 15:36
S79	1	"20040111437".pn.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 15:36
S1	7768	document\$1 NEAR6 retriev\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 18:20
L3	3266	704/1-10.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 18:56
L1	2	"6714927".pn.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 18:56
L5	58	4 AND ((search\$3 quer\$4) NEAR4 document\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:05
L9	1	("5020019" "5535382" "6546383" "6714927" "7072889").pn. AND (retrieval NEAR4 tree\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:09
L8	2	("5020019" "5535382" "6546383" "6714927" "7072889").pn. AND tree\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:09

## EAST Search History

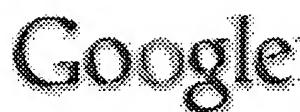
L7	1	("5020019" "5535382" "6546383" "6714927" "7072889").pn. AND tree\$1.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:09
L6	10	("5020019" "5535382" "6546383" "6714927" "7072889").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:12
L10	1	("5020019" "5535382" "6546383" "6714927" "7072889").pn. AND (distance\$1 proxim\$8)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:14
L11	9	(retriev\$3 WITH (condition\$1 NEAR4 tree\$1)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:16
L13	1988	(ngram\$1 n-gram\$1 bigram\$1 bi-gram\$1 tri-gram\$1 trigram\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:18
L4	380	(ngram\$1 n-gram\$1 bigram\$1 bi-gram\$1 tri-gram\$1 trigram\$1) AND 3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:18
L15	376	13 AND 14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:19
L14	14974	(707/2-3,101-102.ccls. 704/9.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:19
L18	26934	((search\$3 quer\$4 retriev\$4) NEAR4 document\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:20
L16	171	15 AND ((search\$3 quer\$4 retriev\$4) NEAR4 document\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:20

## EAST Search History

L20	20	19 AND (quer\$4 NEAR10 (pars\$4 divid\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:21
L17	4	16 AND (condition\$1 NEAR4 (tree\$1 hierarc\$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:21
L21	17	((condition\$1 NEAR4 tree\$1) AND document\$1).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:24
L12	3	((retriev\$3 WITH (condition\$1 NEAR4 tree\$1)) AND document\$1).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:24
L22	26	((condition\$1 NEAR4 (tree\$1 hierarc\$8)) AND document\$1).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:26
L25	6	24 AND (condition\$1 NEAR4 (tree\$1 hierarc\$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:27
L24	446	13 AND 18	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:27
L23	4	((condition\$1 NEAR4 (tree\$1 hierarc\$8)) AND document\$1).clm. AND ((divid\$4 pars\$3) WITH quer\$4).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:27
L19	140	18 AND (condition\$1 NEAR4 (tree\$1 hierarc\$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:27
S68	0	(ngram\$1 n-gram\$1 bigram\$1 bi-gram\$1 tri-gram\$1 trigram\$1) AND (distance NEAR2 operator\$1)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:32

## EAST Search History

L26	2	(ngram\$1 n-gram\$1 bigram\$1 bi-gram\$1 tri-gram\$1 trigram\$1) AND (distance NEAR2 operator\$1)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/30 19:32
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document retrieval n-gram condition tree

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**Spoken Document Retrieval (SDR)**. given a text query, retrieve a segment of ... **n-gram**: **condition** on preceding words;; cache: **condition** on a window (cache): ...

[www.clsp.jhu.edu/ws2005/calendar/documents/LavrenkoJuly5.PPT](http://www.clsp.jhu.edu/ws2005/calendar/documents/LavrenkoJuly5.PPT)  
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[www.TruGreen.com](http://www.TruGreen.com)

**[Modern Information Retrieval - Glossary]**

**SuperBook**, a **retrieval** system which represents the structure of a large **document** besides the **document** surrogate in the answer set. **Syntax tree**, structural ...

[www.ischool.berkeley.edu/~hearst/irbook/glossary.html](http://www.ischool.berkeley.edu/~hearst/irbook/glossary.html) - 40k - [Cached](#) - [Similar pages](#)

**[Index (estraier.pure)]**

**Package**, **Class**, **Tree**, **Index** ... **Condition**: option: check **N-gram** keys skipping by three ...

**Document**: Create a **document** object made from draft data. ...

[hyperestraier.sourceforge.net/javapureapi/index-all.html](http://hyperestraier.sourceforge.net/javapureapi/index-all.html) - 24k - [Cached](#) - [Similar pages](#)

**[Index (estraier)]**

**Package**, **Class**, **Tree**, **Index** ... **Condition**: option: check **N-gram** keys skipping by three ...

**Database**: Add an index for narrowing or sorting with **document** ...

[hyperestraier.sourceforge.net/javanativeapi/index-all.html](http://hyperestraier.sourceforge.net/javanativeapi/index-all.html) - 32k - [Cached](#) - [Similar pages](#)

**[Document retrieval method and document retrieval system - Patent ...]**

Also, in indexing **document retrieval** methods, such as the **n-gram** indexing method, ... in the case of the **n-gram** indexing method) must be managed in a **tree** ...

[www.freepatentsonline.com/7039636.html](http://www.freepatentsonline.com/7039636.html) - 65k - [Cached](#) - [Similar pages](#)

**[PDF] Microsoft PowerPoint - ir03 retrievalmodels**File Format: PDF/Adobe Acrobat - [View as HTML](#)

query specifies precise **retrieval** criteria. – every **document** either ... **n-gram**: **condition** on preceding words;. – cache: **condition** on a window (cache): ...

[cirl.cs.umass.edu/cmpsci646/Slides/ir03%20retrievalmodels.pdf](http://cirl.cs.umass.edu/cmpsci646/Slides/ir03%20retrievalmodels.pdf) - [Similar pages](#)

**[PDF] Language Modeling**File Format: PDF/Adobe Acrobat - [View as HTML](#)

**n-gram**: **condition** on preceding words. cache: **condition** on a window. grammar: **condition** on parse **tree**. Are they useful? no improvements from **n-gram**, ...

[ilps.science.uva.nl/Teaching/0405/IIResources/ii-0405-week02-4-8up.pdf](http://ilps.science.uva.nl/Teaching/0405/IIResources/ii-0405-week02-4-8up.pdf) - [Similar pages](#)

**vol55n11**

With a 15 **document retrieval** the high to low rating mean is lower that of random ...

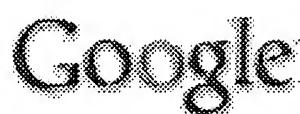
Mustafa and Al-Radaideh investigate the effectiveness of the **N-gram** ...

[www.asis.org/Publications/JASIS/vol55n11.html](http://www.asis.org/Publications/JASIS/vol55n11.html) - 35k - [Cached](#) - [Similar pages](#)

**Alexander Gutkin. Log-Linear Interpolation of Language Models ...**

This paper describes a spoken **document retrieval** (SDR) system for British and North American ... A common **n-gram** based formulation is used for both models. ...

[www.cstr.ed.ac.uk/publications/2000\\_abstracts.html](http://www.cstr.ed.ac.uk/publications/2000_abstracts.html) - 38k - [Cached](#) - [Similar pages](#)

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retrieval condition tree document searching

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### Observations on Structured Document Query Languages

There are many query languages that can take advantage of order and tree structure. ... Storage and **retrieval** of structured documents. ...

[www.w3.org/TandS/QL/QL98/pp/murata-san.html](http://www.w3.org/TandS/QL/QL98/pp/murata-san.html) - 35k - Cached - Similar pages

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### A tree algorithm for nearest neighbor searching in document ...

A tree algorithm for nearest neighbor **searching in document** retrieval systems ... Under certain **conditions**, the **search** time required by this algorithm is ...

[portal.acm.org/citation.cfm?id=803139](http://portal.acm.org/citation.cfm?id=803139) - Similar pages

### [PDF] A TREE ALGORITHM FOR NEAREST NEIGHBOR SEARCHING IN DOCUMENT ...

File Format: PDF/Adobe Acrobat

The standard **searching** methods for **document retrieval** systems ... found; none of these **conditions** is met here. Various **tree-based** methods have been ...

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### Title Index

... Native XML Indexing Techniques for XML Retrieval in Relational Database Systems ...

Internet **Search** Engines — Fluctuations in Document Accessibility ...

[dret.net/biblio/titles](http://dret.net/biblio/titles) - 945k - Cached - Similar pages

### [PDF] A User Interface for XML Document Retrieval

File Format: PDF/Adobe Acrobat - [View as HTML](#)

edited, and a **search** predicate can be chosen for this **condition**. ... oriented variant where people see an expandable **tree** of the XML **document**, as well as ...

[www.is.informatik.uni-duisburg.de/bib/pdf/ir/Grossjohann\\_etai:02a.pdf](http://www.is.informatik.uni-duisburg.de/bib/pdf/ir/Grossjohann_etai:02a.pdf) - Similar pages

### [PDF] Query Formulation and Result Visualization for XML Retrieval

File Format: PDF/Adobe Acrobat - [View as HTML](#)

edited, and a **search** predicate can be chosen for this **condition**. ... The latter is a **tree** view of the **document**, where elements have ...

[www.is.informatik.uni-duisburg.de/bib/pdf/ir/Grossjohann\\_etai:02.pdf](http://www.is.informatik.uni-duisburg.de/bib/pdf/ir/Grossjohann_etai:02.pdf) - Similar pages

### [PPT] Bottom-up query evaluation of structured documents

File Format: Microsoft Powerpoint - [View as HTML](#)

**Search Condition.** Dongwook Shin, National Library of Medicine ... Representing a **Document Tree**. hypertext(1). model(1). **retrieval**(1). semantics(1). index(3) ...

[www.ibiblio.org/bosak/conf/xmldev99/shin/shin.ppt](http://www.ibiblio.org/bosak/conf/xmldev99/shin/shin.ppt) - Similar pages

### [PDF] Enhancing Internet **Search** Engines to Achieve Concept-Based Retrieval

File Format: PDF/Adobe Acrobat - [View as HTML](#)

base **tree** occurs only during its application against a **document** database. ... prototype to initiate a **document**. **retrieval search** through the execution of an ...

[www.osti.gov/inforum99/papers/csss.pdf](http://www.osti.gov/inforum99/papers/csss.pdf) - Similar pages

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Relevance scale 

**1** [Integrating document and data retrieval based on XML](#)

Jan-Marc Bremer, Michael Gertz

January 2006 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 15 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(841.10 KB\)](#) Additional Information: [full citation](#), [abstract](#)

For querying structured and semistructured data, data retrieval and document retrieval are two valuable and complementary techniques that have not yet been fully integrated. In this paper, we introduce integrated information retrieval (IIR), an XML-based retrieval approach that closes this gap. We introduce the syntax and semantics of an extension of the XQuery language called XQuery/IR. The extended language realizes IIR and thereby allows users to formulate new kinds of queries by nesting rank ...

**Keywords:** Data retrieval, Document retrieval, Index structures, Integrated information retrievals, Structural join, XML

**2** [A tree algorithm for nearest neighbor searching in document retrieval systems](#)

 Caroline M. Eastman, Stephen F. Weiss

May 1978 **ACM SIGIR Forum, Proceedings of the 1st annual international ACM SIGIR conference on Information storage and retrieval SIGIR '78**, Volume 13 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(651.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The problem of finding nearest neighbors to a query in a document collection is a special case of associative retrieval, in which searches are performed using more than one key. A nearest neighbors associative retrieval algorithm, suitable for document retrieval using similarity matching, is described. The basic structure used is a binary tree, at each node a set of keys (concepts) is tested to select the most promising branch. Backtracking to initially rejected branches is allowed and ofte ...

**3** [Information access and retrieval: A structured documents retrieval method supporting attribute-based structure information](#)

Seung-Kyu Ko, Yoon-Chul Choy

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Publisher: ACM Press

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**1** [Extended path expressions of XML](#)

Makoto Murata

May 2001 **Proceedings of the twentieth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

Publisher: ACM Press

Full text available: [pdf\(597.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Query languages for XML often use path expressions to locate elements in XML documents. Path expressions are regular expressions such that underlying alphabets represent conditions on nodes. Path expressions represent conditions on paths from the root, but do not represent conditions on siblings, siblings of ancestors, and descendants of such siblings. In order to capture such conditions, we propose to extend underlying alphabets. Each symbol in an extended alphabet is a triplet (e

**2** [Electronic document technology: On merging structured documents with move operation](#)

Nobutaka Suzuki, Yorichiro Sato, Michiyoshi Hayase

September 2003 **Proceedings of the 1st international symposium on Information and communication technologies ISICT '03**

Publisher: Trinity College Dublin

Full text available: [pdf\(191.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

We consider merging structured documents, which is to transform given two distinct documents into isomorphic ones. Such merging is essential to synchronizing several copies of a document concurrently edited by several clients. Two documents, treated as ordered trees, are merged by applying a *merge script* consisting of *add*, *del*, *upd*, and *move* operations to the documents. We prove that the corresponding decision problem to finding an optimum merge script is NP-complete. Then, ...

**3** [Poster session: Index compression vs. retrieval time of inverted files for XML documents](#)

Norbert Fuhr, Norbert Gövert

November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: [pdf\(55.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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**1** [Technique for automatically correcting words in text](#)

Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

**Publisher:** ACM Press

Full text available: [pdf\(6.23 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Research aimed at correcting words in text has focused on three progressively more difficult problems: (1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent word correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

**Keywords:** n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

**2** [XIRQL: An XML query language based on information retrieval concepts](#)

Norbert Fuhr, Kai Großjohann

April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2

**Publisher:** ACM Press

Full text available: [pdf\(281.91 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

XIRQL ("circle") is an XML query language that incorporates imprecision and vagueness for both structural and content-oriented query conditions. The corresponding uncertainty is handled by a consistent probabilistic model. The core features of XIRQL are (1) document ranking based on index term weighting, (2) specificity-oriented search for retrieving the most relevant parts of documents, (3) datatypes with vague predicates for dealing with specific types of content and (4) structural vagueness f ...

**Keywords:** Path algebra, XML, XQuery, probabilistic retrieval, ranked retrieval, vague predicates

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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STO IEEE Standard

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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

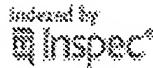
IEEE STD IEEE Standard

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IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

[view selected items](#) [Select All](#) [Deselect All](#)**1. Strategies for Language Model Web-Data Collection**

Wan, V.; Hain, T.;

[Acoustics, Speech and Signal Processing, 2006. ICASSP 2006 Proceedings. 2 International Conference on](#)

Volume 1, 14-19 May 2006 Page(s):I-1069 - I-1072

[AbstractPlus](#) | Full Text: [PDF\(312 KB\)](#) [IEEE CNF](#)[Rights and Permissions](#)**2. From paragraph networks to document networks**

Jinghao Miao; Berleant, D.;

[Information Technology: Coding and Computing, 2004. Proceedings. ITCC 2004 Conference on](#)

Volume 1, 2004 Page(s):295 - 302 Vol.1

Digital Object Identifier 10.1109/ITCC.2004.1286469

[AbstractPlus](#) | Full Text: [PDF\(6044 KB\)](#) [IEEE CNF](#)[Rights and Permissions](#)**3. Graph structures in paragraph-linked repositories**

Jinghao Miao;

[Web Intelligence, 2003. WI 2003. Proceedings. IEEE/WIC International Conference on](#)

13-17 Oct. 2003 Page(s):10 - 17

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